

I claim:

Sub
A1

1. ~~In an agricultural machine having an adjustable platform supported by the~~
2 machine and a control system for setting the operating height of said platform relative
to the ground, said control system including a sensor responsive to the angular position
4 of a shaft and generating a signal representative of said operating height, an improved
sensor arm coupled to said shaft and comprising an operating portion for contacting the
6 ground and being curved at the segment of said operating portion adjacent said shaft,
such that the distance between the center of said shaft and the point at which said
8 sensor arm contacts the ground decreases as the operating height of said platform is
decreased.

2. The apparatus of claim 1 wherein the curvature of said sensor arm extends
2 substantially continuously over said operating portion thereof.

Sub
A2

3. ~~The apparatus of claim 2 wherein said sensor arm includes a forward,~~
2 curved portion extending from a location adjacent said shaft rearwardly to a transition
region and having a first curvature, and a second curved portion rearward of said first
4 curved portion and extending from said transition region to a location adjacent the rear
end of said operational region of said sensor shaft and having a second radius of
6 curvature.

4. The apparatus of claim 3 characterized in that said first radius of curvature
2 is less than said second radius of curvature.

5. The apparatus of claim 1 wherein said curved operating portion of said
2 sensor arm comprises a plurality of discrete curved portions extending adjacent one
another over substantially the entire operating portion of said sensor arm.

Sub
A3
6. In an agricultural machine having a platform carried by the machine, and
2 a control system for setting the operating height of said platform relative to the ground,
said control system including a sensor mechanism comprising a member rotatable about
4 an axis, a sensor arm mounted to said rotatable member and including an operating
portion for contacting the ground, characterized in that a forward segment of said
6 operating portion is substantially continuously curved whereby when said platform is set
at a lower operating height, the distance between said rotatable member and the point
8 at which said arm contacts the ground continuously decreases as the operating height
of said platform is decreased.

7. The apparatus of claim 6 wherein said curved portion of said sensor arm comprises a first curved portion having a substantially constant radius of curvature, and said sensor arm includes a second curved segment rearward of said first curved segment and characterized in having a second radius of curvature, said second radius of curvature being greater than said first radius of curvature, whereby the magnitude of response of said control system is greater for lower operating heights of said platform than is the response magnitude for higher operating heights of said platform.

[illegible]